

Appendix table 4-16.

U.S. inflation-adjusted development expenditures, by performing sector and source of funds: 1953–2000

(Millions of constant 1996 dollars)

Performing sector:	Total U.S.	Federal Gov't.	Industry		Industry FFRDCS ^a	Universities & colleges					U&C FFRDCS	Other nonprofit institutions			Nonprofit FFRDCS ^a			
	Total	Federal Gov't	Total	Federal Gov't		Federal Gov't	Total	Federal Gov't	Non-Federal Gov't	Industry	U&Cs	Nonprofit	Federal Gov't ^c	Total	Federal Gov't	Industry	Non- profit	Federal Gov't
Funding sector:	Total U.S.	Federal Gov't	Total	Federal Gov't	Industry ^b	Federal Gov't	Total	Federal Gov't	Non-Federal Gov't	Industry	U&Cs	Nonprofit	Federal Gov't ^c	Total	Federal Gov't	Industry	Non- profit	Federal Gov't
Calendar year^d																		
1953	17,722	2,943	14,301	5,834	8,468	NA	83	44	15	5	14	5	247	148	86	31	31	NA
1954	19,208	2,762	15,895	7,227	8,668	NA	87	44	18	5	16	5	301	162	90	36	36	NA
1955	21,178	2,743	17,811	9,024	8,787	NA	106	58	19	8	16	5	349	169	94	40	35	NA
1956	28,628	3,083	24,861	13,775	11,086	NA	122	66	22	10	18	7	394	169	95	39	34	NA
1957	31,619	3,443	27,402	17,113	10,289	NA	123	57	25	12	20	9	478	173	97	38	38	NA
1958	33,334	3,889	28,572	18,216	10,356	NA	127	58	26	14	20	9	555	192	113	37	42	NA
1959	38,679	4,296	33,396	21,709	11,686	NA	142	71	27	14	21	9	612	233	146	41	46	NA
1960	42,181	4,518	36,521	23,294	13,227	NA	155	86	28	11	21	9	678	309	219	45	45	NA
1961	44,249	4,855	38,039	23,828	14,211	NA	167	96	31	9	23	9	755	432	325	45	62	NA
1962	44,483	5,396	37,498	23,223	14,274	NA	176	99	34	9	25	9	836	578	451	48	79	NA
1963	50,172	6,370	41,961	26,591	15,370	NA	174	96	34	9	26	9	950	717	583	48	87	NA
1964	53,582	7,198	42,862	26,375	16,487	1,538	208	126	34	9	28	11	970	805	681	47	77	NA
1965	55,572	7,521	44,731	26,148	18,583	1,253	296	202	36	8	33	17	868	902	767	50	84	NA
1966	59,238	7,711	48,283	28,001	20,282	1,108	356	249	38	8	39	20	818	963	812	57	94	NA
1967	60,815	7,707	49,738	26,954	22,785	1,198	369	260	34	10	40	26	825	978	823	60	95	NA
1968	61,420	7,240	50,837	26,783	24,053	1,114	386	272	29	15	35	34	859	985	825	61	99	NA
1969	61,800	7,306	51,000	25,169	25,832	1,203	397	288	26	18	29	36	892	1,002	835	65	101	NA
1970	58,241	7,770	47,137	21,445	25,692	1,170	385	287	22	17	24	34	857	922	757	62	103	NA
1971	57,007	8,101	45,623	20,206	25,416	1,281	321	226	26	13	28	28	875	806	636	62	108	NA
1972	58,904	8,294	47,275	20,531	26,744	1,263	317	196	39	11	43	28	915	839	669	60	110	NA
1973	60,109	7,908	48,792	19,705	29,086	1,188	374	210	52	15	59	37	879	969	796	60	113	NA
1974	58,723	7,552	47,572	17,895	29,678	1,308	384	203	55	18	67	41	877	1,030	856	59	115	NA
1975	56,722	7,219	45,846	16,945	28,901	1,336	390	206	55	20	69	40	931	1,000	824	58	117	NA
1976	59,303	7,025	48,255	17,783	30,473	1,546	430	235	57	27	74	38	1,057	989	806	60	123	NA
1977	61,476	7,081	50,207	18,381	31,826	1,499	564	340	62	32	89	41	1,138	987	797	61	128	NA
1978	64,414	7,622	52,283	18,155	34,128	1,561	773	526	66	30	102	49	1,145	1,029	835	61	133	NA
1979	67,895	7,548	55,566	18,924	36,641	1,550	899	644	65	30	107	53	1,212	1,121	923	61	137	NA
1980	71,359	7,140	59,341	19,209	40,131	1,546	908	634	67	34	119	54	1,305	1,120	920	61	139	NA
1981	73,801	7,264	61,804	20,508	41,295	1,523	910	619	70	38	128	56	1,219	1,081	880	60	141	NA
1982	78,035	7,816	65,561	21,457	44,104	1,493	901	600	69	40	133	59	1,152	1,112	904	61	147	NA
1983	83,581	8,864	69,779	22,535	47,244	1,530	896	580	69	45	141	62	1,252	1,259	1,038	63	158	NA
1984	92,838	9,908	77,507	24,692	52,815	1,478	948	609	72	52	151	65	1,467	1,530	1,295	66	169	NA
1985	101,084	10,871	84,163	27,491	56,673	1,495	1,026	660	78	59	163	67	1,785	1,744	1,493	69	182	NA
1986	100,650	10,988	83,483	28,571	54,912	1,520	1,086	682	87	67	181	70	2,057	1,516	1,245	73	197	NA
1987	102,905	10,538	86,090	31,093	54,997	1,585	1,218	772	94	74	200	78	2,190	1,283	994	77	213	NA
1988	105,438	11,051	87,711	29,571	58,140	1,763	1,369	870	103	83	224	89	2,203	817	508	80	228	524
1989	105,352	11,235	87,336	25,278	62,058	1,709	1,473	928	110	91	246	98	2,145	937	609	84	244	517

See explanatory notes, if any, and SOURCE at end of table.

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 (Millions of constant 1996 dollars)

Performing sector:	Total U.S.	Federal Gov't.	Industry			Industry FFRDCS ^a						U&C FFRDCS				Other nonprofit institutions				Nonprofit FFRDCS ^a
	Total	Federal Gov't	Total	Federal Gov't	Industry ^b	Federal Gov't	Total	Federal Gov't	Non-Federal Gov't	Industry	U&Cs	Nonprofit	Federal Gov't ^c	Total	Federal Gov't	Industry	Non- profit	Federal Gov't		
Calendar year^d																				
1990	108,667	11,213	90,598	21,923	68,674	1,662	1,626	1,051	115	96	262	103	1,938	1,064	716	87	261	567		
1991	106,046	9,790	89,545	19,246	70,299	1,542	1,710	1,127	115	96	267	105	1,689	1,176	805	91	280	594		
1992	108,659	9,906	92,083	18,708	73,375	1,494	1,737	1,147	114	99	268	109	1,562	1,225	825	96	303	653		
1993	105,982	9,645	90,119	17,100	73,019	1,104	1,805	1,197	116	103	276	114	1,431	1,267	836	101	329	611		
1994	107,304	9,190	91,543	16,883	74,660	1,246	1,889	1,262	118	106	287	116	1,526	1,314	849	107	358	596		
1995	115,242	9,441	99,227	18,169	81,058	1,231	1,844	1,200	125	110	293	115	1,623	1,260	758	113	389	615		
1996	121,348	9,033	105,863	17,066	88,797	1,358	1,787	1,125	128	115	305	115	1,495	1,241	698	120	423	571		
1997	126,432	8,903	111,019	17,774	93,245	1,267	1,884	1,184	130	122	327	121	1,434	1,351	673	152	526	573		
1998	135,512	8,927	119,874	17,658	102,216	1,240	1,983	1,234	134	133	350	131	1,528	1,469	736	163	570	491		
1999	141,153	9,083	125,093	14,806	110,287	1,384	2,014	1,231	138	141	368	137	1,587	1,567	781	178	607	424		
2000	151,229	9,159	134,931	15,157	119,773	1,484	2,093	1,272	142	150	387	143	1,489	1,641	805	194	642	433		

FFRDCs = Federally Funded Research and Development Centers; U&Cs = universities and colleges; NA = not available

^aFor 1953–63, development expenditures of industry FFRDCs were not separated out from total Federal support to the industrial sector for development. Thus, the figure for Federal support to industry for development includes support for development at industry FFRDCs for those years. The same is true for expenditures of nonprofit FFRDCs in 1953–87, which are included in Federal support for nonprofit institutions for those years.

^bIndustry sources of industry R&D expenditures include all non-Federal sources of industry R&D expenditures.

^cIncludes all R&D expenditures of FFRDCs administered by academic institutions.

^dExpenditure levels for academic and Federal Government performers are also in reference to calendar years. These levels are approximations based on fiscal year data. For Federal Government expenditures starting in 1977, the calendar year approximation is equal to 75 percent of the amount reported in the same fiscal year plus 25 percent of the amount reported in the subsequent fiscal year. For academic expenditures in all years and for Federal Government expenditures before 1977, the respective percentages are 50 and 50, because those fiscal years (for most academic institutions and the Federal Government before 1977) begin on July 1 instead of October 1.

NOTES: Data are based on annual reports by performers except for the nonprofit sector. Data are preliminary for 2000. These tables incorporate the latest revisions to prior-year data, including recently revised estimates of R&D performance by nonprofit organizations. Do not use data published earlier.

SOURCE: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *National Patterns of R&D Resources: 2000 Data Update*, NSF 01-309 (Arlington, VA, March 2001). Available at <<http://www.nsf.gov/sbe/srs/nsf01309/start.htm>>.